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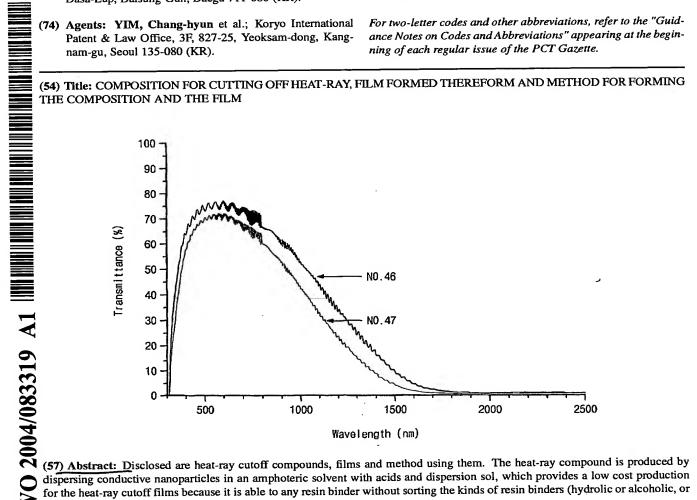
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dispersing conductive nanoparticles in an amphoteric solvent with acids and dispersion sol, which provides a low cost production for the heat-ray cutoff films because it is able to any resin binder without sorting the kinds of resin binders (hydrolic or alcoholic, or anti-hydrolic).